

Henry Kristianto

Enterprise Sales Director

Fireeye

06th March 2018, Ambarrukmo Yogyakarta





THE WORST CASE SCENARIO



Saudi Aramco – Biggest \$\$ hack in history (Oil&Gas)



Saudi Aramco suffered the worst hack in world history in 2012.

Aug 15, 2012 (Ramadan)

Aramco was hit by malware Shamoon, rendered 35000 computers partially wiped or totally destroyed – used typewriters and faxes for few weeks

Successful spear phishing attack by group "Cutting Sword of Justice". Aramco's www operations were unplugged from internet to stop the spread of Shamoon.

Aramco took 5 months to recover

http://www.darkreading.com/attacks-breaches/inside-the-aftermath-of-the-saudi-aramco-breach/d/d-id/1321676



Inside the Cunning, Unprecedented Hack of Ukraine's Power Grid https://www.wired.com/2016/03/inside-cunning-unprecedented-hack-ukraines-power-grid/



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\$81M Bangladesh Bank Heist...

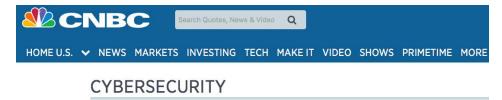




Attacker use stolen SWIFT credentials of Bangladesh Central Bank to send more than three dozen fraudulent money transfer requests to the Federal Reserve Bank of New York asking the bank to transfer millions of the Bangladesh Bank's funds to bank accounts in the Philippines & Sri Lanka.



After the Bangladesh Bank HeistNot an isolated incident



Vietnam's Tien Phong Bank says it was second bank hit by SWIFT cyberattack

TECHNOLOGY RE/CODE MOBILE SOCIAL MEDIA ENTERPRISE GAMING

Sunday, 15 May 2016 | 7:52 PM ET





Nguyen Huy Kham

A man rides a motorcycle past the Vietnamese commercial Tien Phong bank in Hanoi May 13, 2016.

May 15, 2016

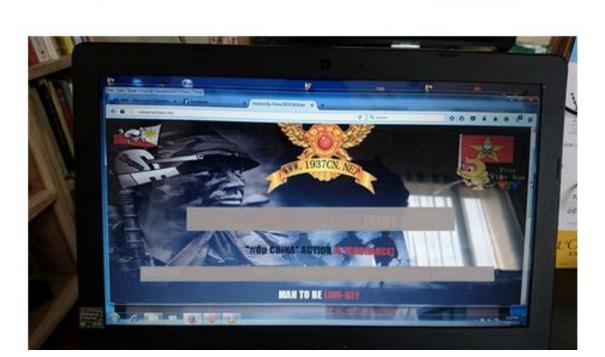
Hanoi-based TPBank said in a statement late on Sunday in response to inquiries from Reuters that in the fourth quarter of last year it identified suspicious requests through fraudulent SWIFT messages to transfer more than 1 million euros (\$1.1 million) of funds.



Vietnam Airports Cyber Attacks well planned & targetted

Chinese hackers attack VN's airports and Vietnam Airlines' website

Update: July, 29/2016 - 09:00



July 29, 2016

The hackers used a brand new type of malware able to pass normal security tools, such as antivirus software," VNISA said.

In the case of Vietnam Airlines, VNISA said there are signs showing that hackers may have penetrated the airline's system as early as mid-2014.





FireEye with Front Line Experience

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Target settles with banks for \$39 million after epic data breach

BREACHED:

2013

RESPONDER: FireEye

VICTIM:



IMPACT:

- Estimated \$300M of total impact
- CEO resignation
- CIO resignation
- 40 million customers effected



Sony Got Hacked Hard: What We Know and Don't Know So Far

BREACHED:

2014

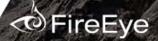
RESPONDER: FireEye

VICTIM:



IMPACT:

- Leaked emails between Sony Pictures executives
- Sony Pictures Co-chairman resignation
- \$15M USD in Incident Response and Remediation Costs
- Computer Networks shut down for several weeks



Hacked Toymaker VTech Admits Breach Actually Hit 6.3 Million Children

BREACHED:

2015

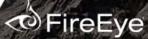
VICTIM:

vtech

IMPACT:

• 6.3 Million Parents & Children affected when thousands of pictures, as well as a year's worth of chat logs, were compromised

RESPONDER: FireEye



Anthem, a Major Health Insurer, Suffered a Massive Hack

BREACHED:

2015

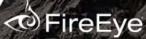
VICTIM:

Anthem®

IMPACT:

 Personal Information of 80 Million Customers Stolen

RESPONDER: FireEye



Verizon Demands a Better Deal After Yahoo's Latest Historic Hack

BREACHED:

2016

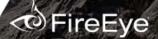
RESPONDER: FireEye

VICTIM:

YAHOO!

IMPACT:

- 1 Billion User Accounts were hacked
- \$4.8B acquisition deals by Verizon impacted
- 2nd time criminal charges are filed against known state actors for hacking



Bangladesh Bank Chief Resigns After Cyber Theft of \$81 Million

BREACHED:

2016

RESPONDER: FireEye

VICTIM:



IMPACT:

- \$81 Million Dollar Theft
- Resignation of Central Bank's Governor

Food Court: Arby's Reportedly Faces 8 Lawsuits Resulting from Breach

BREACHED:

2017

RESPONDER: FireEye

VICTIM:



IMPACT:

 Over 350,000 credit and debit card accounts may have been impacted by the hack, according to the credit union service PSCU

Sabre Discloses Data Breach of Card Details at its Hotels

BREACHED:

2017

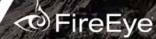
RESPONDER: FireEye

VICTIM:

Sabre

IMPACT:

 Significant breach of payment and customer data tied to bookings processed through a reservations system that serves more than 32,000 hotels and other lodging establishments



Equifax negligence causes loss of customer data

BREACHED:

2017

RESPONDER: FireEye

VICTIM:



IMPACT:

 Breach resulted in loss of customer data, which now "permits thieves to create FAKE identities, fraudulently obtain loans, swipe tax refunds and destroy" consumer creditworthiness.

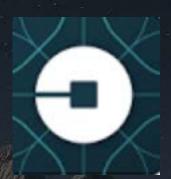
Uber paid 100K to hackers to delete data and keep quiet about breach

BREACHED:

2017

RESPONDER: FireEye

VICTIM:

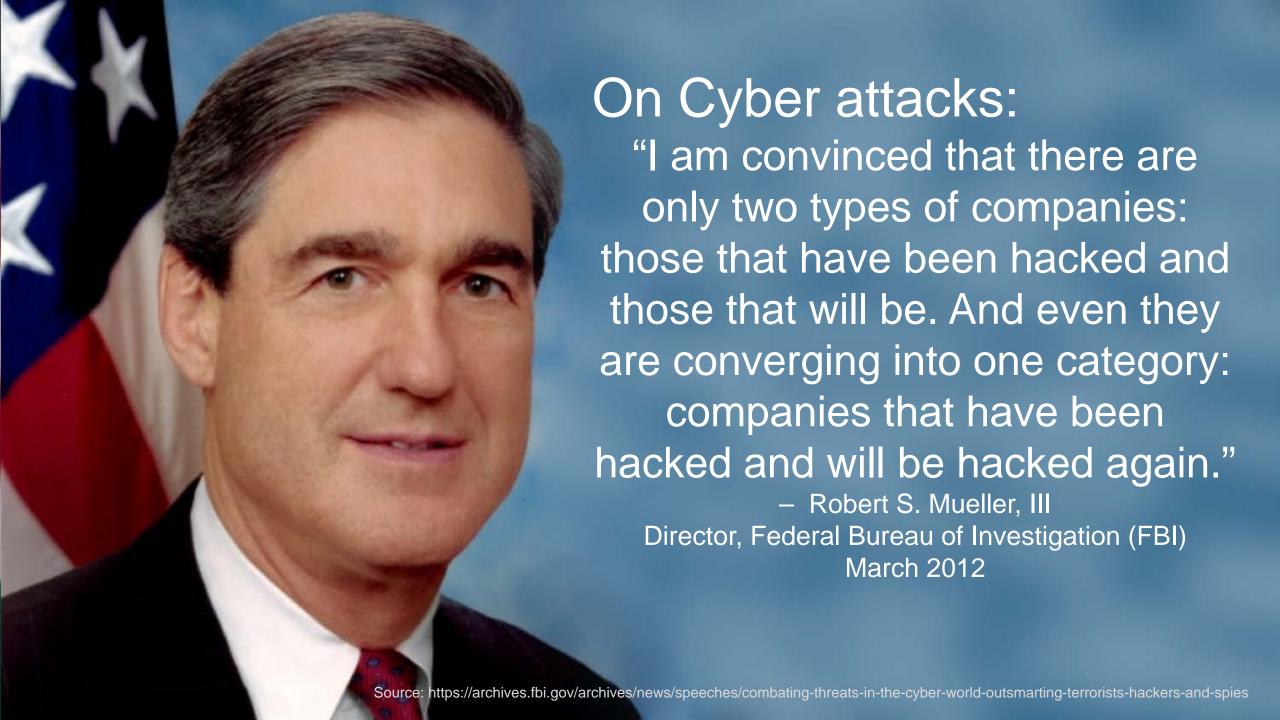


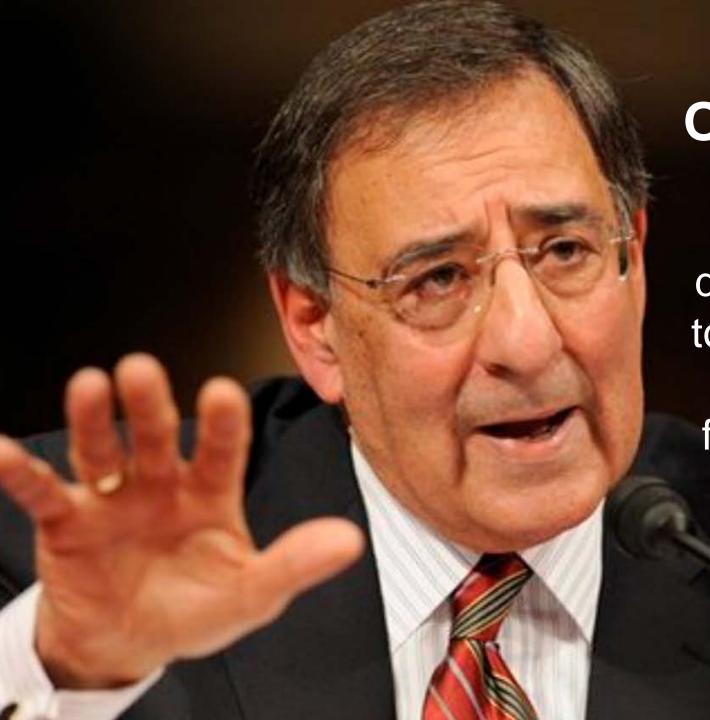
IMPACT:

 Personal Information of 57M customers and drivers data compromised, deleted and now disclosed to Public after more than 1 Year

LEADER PERSPECTIVE: SERIOUSNESS OF CYBER RISK



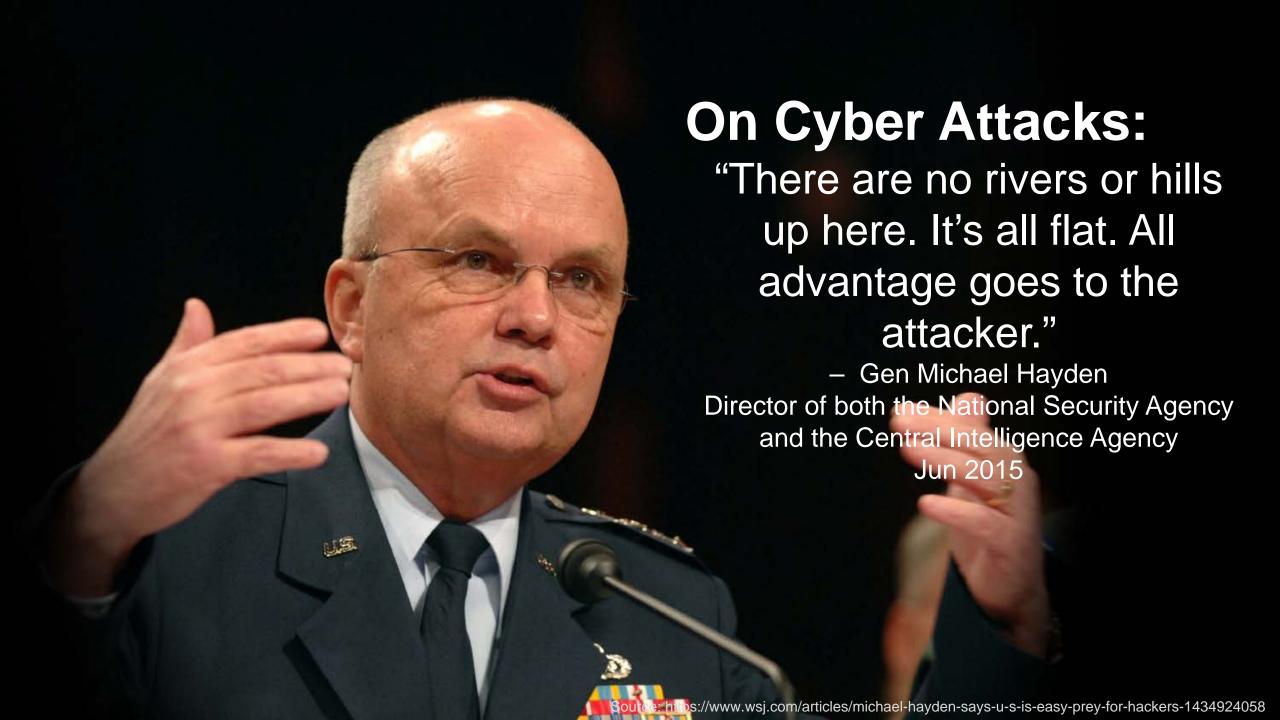




On Cyber Attacks:

"The technology is there to cripple a country, to take down our power grid system, to take down our government system, take down our financial system and literally paralyze the country".

Leon PanettaSecretary of DefenseFeb 2013



CORRECTING COMMON MISCONCEPTIONS







3 Truths in Cyber-security

Organizations don't have enough security people

Most organizations get too many alerts

Eventually bad guys get in, and most organizations are not aware

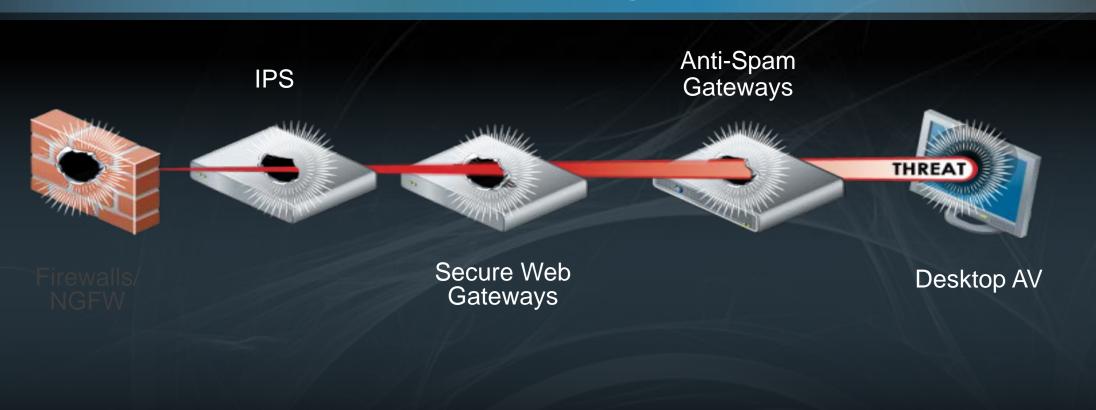
"Alert to fix in minutes, from an iPAD, sitting in a Starbucks café in the airport"

- Kevin Mandia, FireEye CEO



Traditional "Defense in Depth" is failing

The New Breed of Attacks Evade Signature-Based Defenses



APT* is a "WHO"..... Not a "WHAT"

* APT : Advanced Persistent Threat



Malware



Attacker



Define your goal carefully

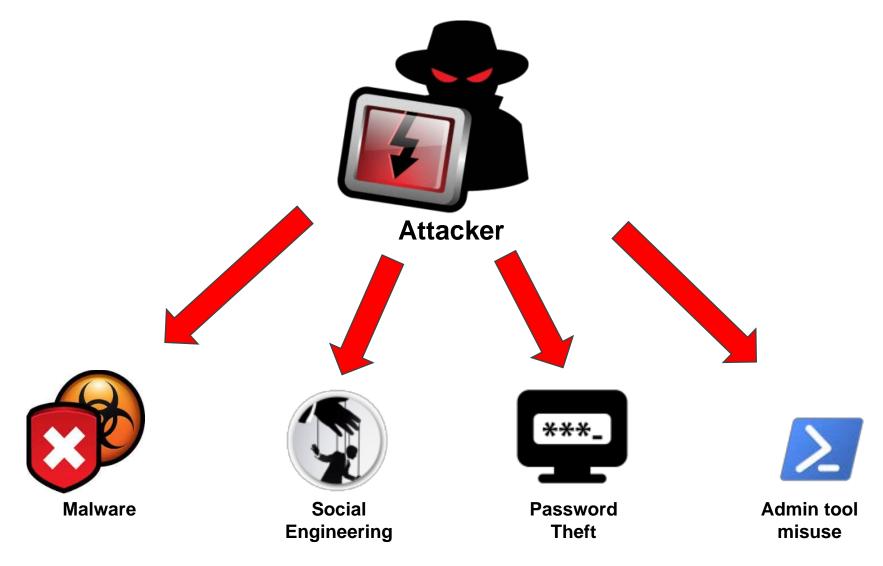
Are you trying to solve the

APT problem

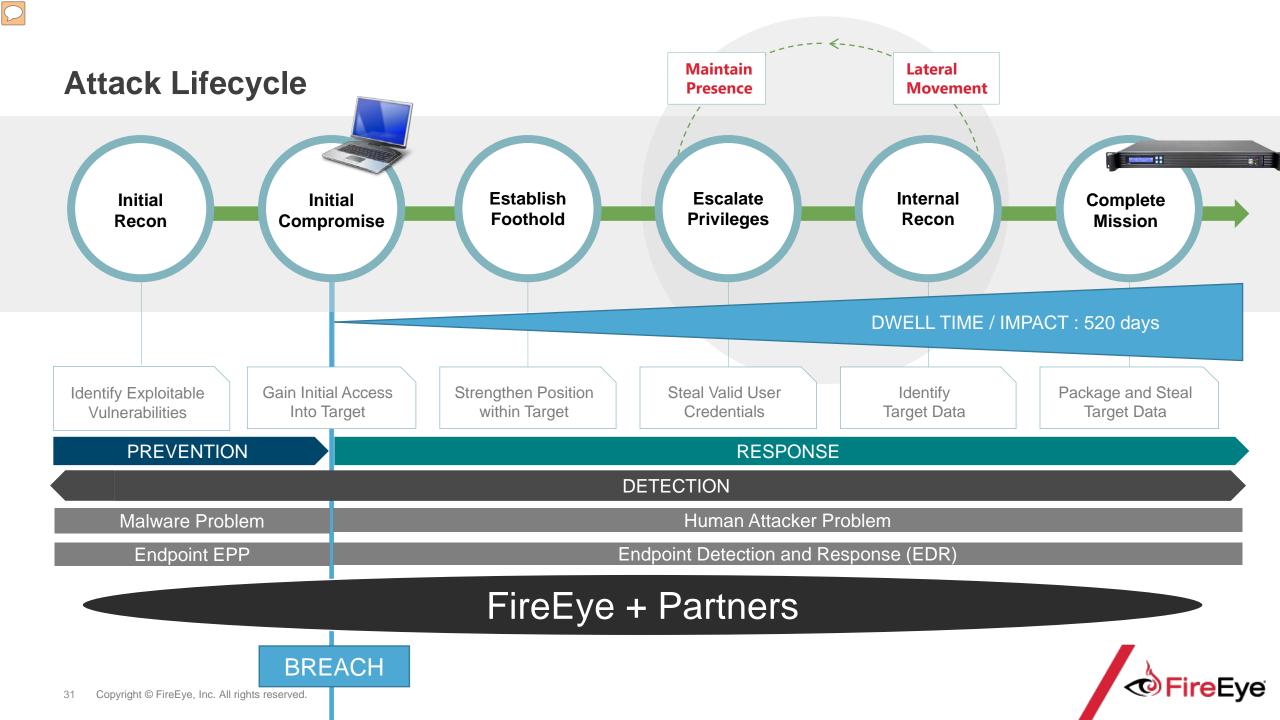
by catching more malware?



Malware is just one of the attacker's many tools

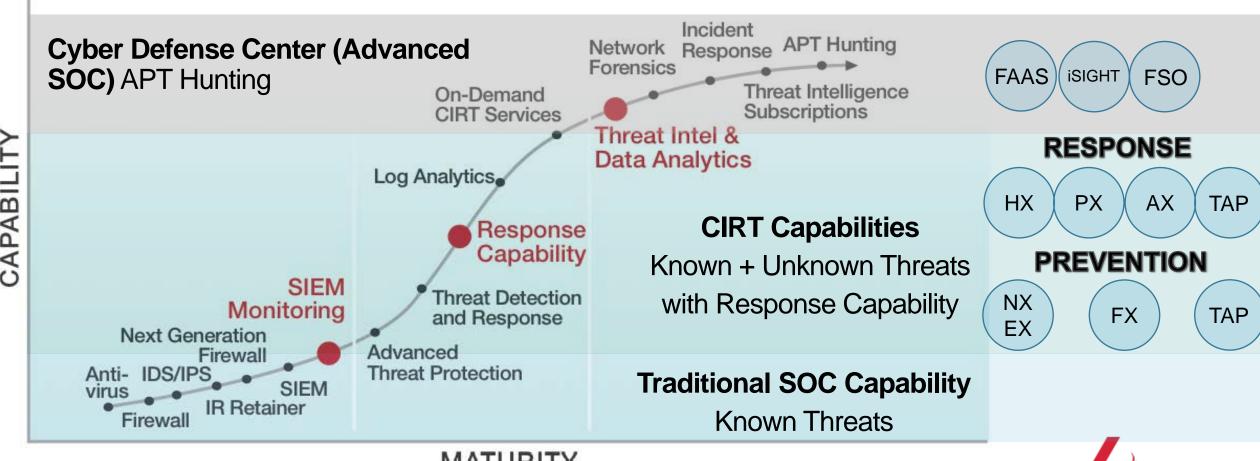






CAPABILITY

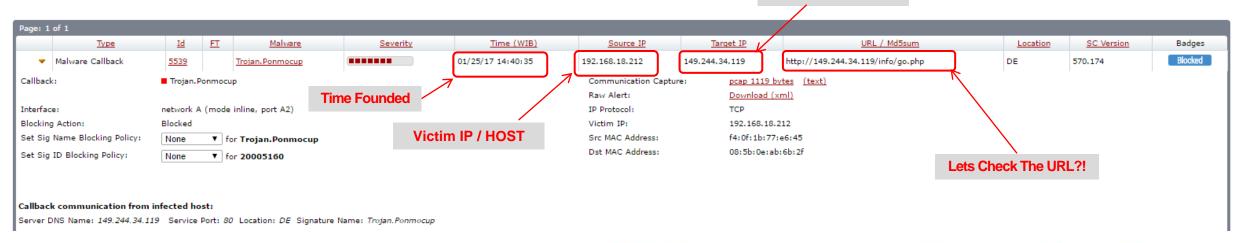
Next Step: Cyber Program Maturity

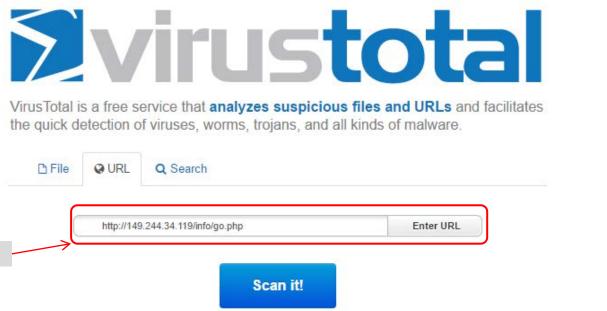


Sample Forensic Data: Malware CallBack (High Critical Severity)

Lets Check The URL?!

Malware: Trojan.Ponmocup





Attacker CnC

INCOMPLETE PLATFORMS = INCOMPLETE SOLUTIONS

Legacy Platforms

Endpoint AV

Endpoint Encryption

Endpoint APT

"Next-Gen" Legacy Platforms

Endpoint AV

Endpoint Encryption

Endpoint APT

Visibility into Activity

Exploit Detection & Prevention

Endpoint Forensics, Alerts

FireEye Endpoint

Endpoint AV

Endpoint APT

Visibility into Activity

Exploit Detection & Prevention

Endpoint Forensics, Alerts

Integrated Workflow Platform

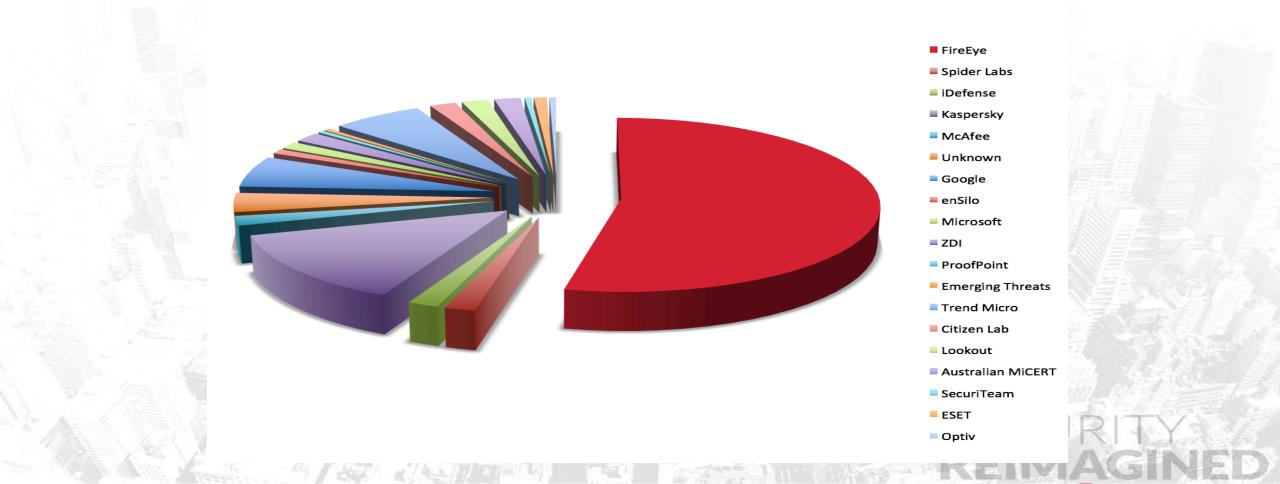
Tactical/Operational Intel

Incident Response / Assessment



The FireEye Difference: Seeing what others don't

The vital / key point measurement for Advanced Threat Detection vendor is a zero day detection track record. FireEye has an excellent zero day detection track record. As per September 2017, FireEye has found 30 from total of 56 zero-day attack (54%). This is much more than all the vendor detection to the zero day combined.



The FireEye Difference: Seeing what others don't

Zero Day Score Card



Updated on: 09-14-17

Vendors (2012-17)	Count	Percent	
FireEye	30	54%	
Spider Labs	1	2%	
iDefense	1	2%	
Kaspersky	7.5	13%	
McAfee	1	2%	
Unknown	2	4%	
Google	3.25	6%	
enSilo	0.5	1%	
Microsoft	0.75	1%	
ZDI	1	2%	
ProofPoint	0.25	0%	
Emerging Threats	0.25	0%	
Trend Micro	3.5	6%	
Citizen Lab	1	2%	
Lookout	1	2%	
Australian MiCERT	1	2%	
SecuriTeam	0.25	0%	
ESET	0.5	1%	
Optiv	0.25	0%	
Zero Day Total	s 56	100%	

Zero Day Summary (by Year)

2012	2013	2014	2015	2016	2017	Total
2	9	6	8	2.25	2.75	30.0
0	1	0	0	0	0	1
0	1	0	0	0	0	1
0	0	3	0.5	4	0	7.5
0	1	0	0	0	0	1
0	0	1	0	1	0	2
0	1	1	0	1.25	0	3.25
0	0	0	0.5	0	0	0.5
0	0	0	0.5	0	0.25	0.75
0	0	1	0	0	0	1
0	0	0	0	0.25	0	0.25
0	0	0	0	0.25	0	0.25
0	0	0	3.5	0	0	3.5
0	0	0	0	1	0	1
0	0	0	0	1	0	1
0	0	0	0	1	0	1
0	0	0	0	0	0.25	0.25
0	0	0	0	0	0.5	0.5
0	0	0	0	0	0.25	0.25
2	13	12	13	12	4	56.00

*Note: Shared 0-Day Discovery by 2 is recognized as .5, while 4 shared is .25 recognition

Call to Vannie if need more info on Fireeye

+62 877 7567 8589

Email Vannie@advancedtechpac.com





LARGE AND GROWING SET OF CUSTOMERS

GOVERNMENT

















INFRASTRUCTURE



HIGH TECH



HEALTHCARE





FINANCIAL SERVICES. **INSURANCE**















BANK OF ENGLAND

RETAIL

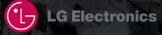














SMALL MEDIUM ENTERPRISE







LOCKHEED MARTIN



































FireEye







Henry Kristianto is an Innovative and self starter having over than 14 years of experience in Indonesia ICT industry.

He now runs FireEye Business in Indonesia, leading our business growth with enterprise customers in key sectors o Financial Services, Telecommunications and Government.

Henry's key strengths are in Sales and Marketing, Enterprise-Commercial Solutions & Market. Good with partners and customers, he is a strong leader and Cyber IT veteran who is able to open markets, build and drive Brand awareness and closure.



Thank You, see you in ICION 2019

 Support our effort to build a Safer Cyber Security World in Indonesia. Our official CISSP classes scheduled for April 23th to 27th 2018



- Contact to Vannie via +62 877 7567 8589
- Join us in our Linkedin Group ICION as below
- https://www.linkedin.com/groups/3942786



See you in ICION 7th Conference, 2019 in Bali

